

**89544 to 89546. LUPINUS spp. Faba-
ceae. Lupine.**

From Perth, Western Australia. Seeds presented by the Chapman Experiment Farm, Department of Agriculture. Received October 18, 1930.

89544. LUPINUS ANGUSTIFOLIUS L.

A narrow-leaved, blue-flowered lupine used for fodder.

**89545. LUPINUS HIRSUTUS L.
European blue lupine.**

An ovate-leaved lupine used for forage and green manure.

For previous introduction see 81945.

89546. LUPINUS PILOSUS Murray.

A hairy annual 2 to 4 feet high, with compound leaves of 9 to 11 oblong-lanceolate leaflets and a raceme of rose-colored flowers arranged in whorls. It is native to southern Europe.

For previous introduction see 39198.

**89547 to 89549. SOLANUM spp. Sola-
naceae.**

From Lima, Peru. Seeds presented by M. E. Odriozola, Chief, Estación Experimental Agrícola de La Molina. Received October 18, 1930.

89547. SOLANUM MURICATUM Ait. Pepino.

A plant indigenous to Peru, which is cultivated as far south as northern Chile. The sweet juicy fruits are highly prized among the natives. They are sold in the markets.

For previous introduction see 61434.

**89548. SOLANUM QUITOENSE Lam.
Naranjilla.**

A shrub about 3 feet high of very good appearance. The wide plushy leaves are a fine iridescent green, and the purple flowers are comparatively large. The aromatic orange-colored fruits are nearly spherical and about 2 inches in diameter; they are used in the preparation of refreshing drinks. The plant is indigenous to the mountain regions of Peru.

For previous introduction see 52866.

89549. SOLANUM TORVUM Swartz.

A shrub about 10 feet high which grows wild in humid places or on the banks of rivers, isolated or forming heaths together with other shrubs. The stems are prickly, and the unarmed hairy leaves are 4 inches long and 6 inches wide. The white flowers occur in many-flowered racemes and are over 1 inch in diameter. The berries are small, smooth, and globose. The shrub is distributed throughout tropical America, the Philippines, China, and the Malay Archipelago.

For previous introduction see 43780.

**89550 to 89584. SOLANUM spp. Sola-
naceae.**

From Mexico. Tubers collected by Dr. Donald Reddick, Cornell University, in collaboration with Paul Russell and Max Souviron, Bureau of Plant Industry. Received in October and November, 1930.

Nos. 89550 to 89562 were collected October 13, 1930, in rich loam in the garden of the convent at 9,800 feet altitude in El Desierto, Distrito Federal.

89550 to 89584—Continued.**89550. SOLANUM sp.**

No. 51. A and B. Apparently two kinds of plants are growing together. The fruits of one are solid green; those of the other are green spotted with small white specks. The white or purple tubers are on stolons, sometimes 3 feet long.

89551. SOLANUM sp.

No. 54. A plant with smooth green oval fruits having a slight lateral depression.

89552. SOLANUM sp.

No. 56.

89553. SOLANUM sp.

No. 58. A plant with smooth green oval to obconic fruits and white tubers which are irregularly oval.

89554 and 89555. SOLANUM spp.

These two plants were growing so closely together that it could not be determined which seeds and tubers belonged to the same plant as the tuber-bearing stolons were sometimes 3 feet long, and the plants were dead at the time the tubers were collected. The fruits of one plant were smooth, green, and globular; those of the other were smooth, green, obconic, with a slight lateral depression. Some of the tubers were white, others purple.

89554. SOLANUM sp.

No. 59-C.

89555. SOLANUM sp.

No. 59-D.

89556. SOLANUM sp.

No. 60. Small white tubers.

89557. SOLANUM sp.

No. 61. A tall plant with smooth, green, cordate fruit and marked with white specks and a lateral suture. The tubers are white. Found growing in dense shade.

89558. SOLANUM sp.

No. 62. A tall plant with smooth, green, cordate fruits marked with faint white specks and having a lateral suture. The oblong tubers are pale purple.

89559. SOLANUM sp.

No. 63. A plant with white oval tubers.

89560. SOLANUM sp.

No. 65. A low plant with very large purple flowers and white oval tubers.

89561. SOLANUM sp.

No. 66. A tall plant with pale purple tubers which are irregularly oval; found growing in dense shade at 10,000 feet altitude.

89562. SOLANUM sp.

No. 67. A plant with smooth, green, elliptic to obconic fruits marked with faint white specks and having a vertical suture. The oval tubers are white and smooth.

Nos. 89563 to 89569 were collected October 15, 1930, in rich loam along the roadside at El Vigia, Puebla, about 30 miles from Mexico City on the road to Puebla City, at 12,500 feet altitude.